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10/684,365	10/15/2003	Chang-Shu Huang	A-8764	3367

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EXAMINER	
ARCOS, JEISON C	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	**Application No.** 10/684,365	**Applicant(s)** HUANG, CHANG-SHU	
	Examiner Jeison Arcos	**Art Unit** 2109	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 October 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-18* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *15 October 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

This Office Action is in response to the application filed on 10/15/2003. Claims 1 - 13 are pending and have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 -13 are rejected under 35 U.S.C. 102(b) as being anticipated by Connery et al. (US 6311276 B1).

Regarding Claim 1, Connery et al., teaches an apparatus for wakeup on LAN, comprising: a programmable control apparatus; **(Line 66 Column 2 to Line 7 Column 3),** a computer system, connected to the programmable control apparatus; **(Column 3 Lines 8 - 16)** and an interface device, separately connected to the programmable control apparatus and the computer system, wherein when the interface device receives a wakeup on LAN package, the interface device separately sends a management signal to the programmable control apparatus and the computer system; **(Column 3 Lines 23 - 30) wherein it is known to a person of ordinary skill in the art that a network adapter is an interface device.**

wherein the programmable control apparatus determines if the computer system is in an abnormal off state according to a handshaking protocol, and when the computer system receives the management signal and is in the abnormal off state, the programmable control system sends a reset signal to the computer system to reset the computer system. **(Column 3**

Lines 25 - 39) wherein it is known to a person of ordinary skill in the art that Magic Packet uses handshaking protocol for communication purposes, (Column 3 Lines 49 - 54) as explained the states of the system will be monitor by the network manager (Column 3 Lines 57 - 67).

Regarding Claim 2, Connery et al., the apparatus of claim 1, wherein the programmable control apparatus is a programmable control chip.

Regarding Claim 3, Connery et al., the apparatus, wherein the programmable control apparatus comprises a monitor module, monitoring a system health state of the computer system and generating a system health data. **(Column 4 Lines 1 - 7) and (Column 4 Lines 19 - 25)**

Regarding Claim 4, Connery et al., the apparatus, wherein the programmable control apparatus comprises a data output port, sending the system health data. **(Line 66 Column 2 Line 7 Column 3) wherein it is inherent that a managing system must comprise input/output ports in order to communicate with other devices with in the system.**

Regarding Claim 5, Connery et al., the apparatus, wherein the computer system comprises a south bridge chip, receiving the management signal. **(Column 3 Lines 49 - 54) and Fig. 3 represents the signal being receive by the PCI-ISA bridge, is actually the Southbridge as it is well known to a person of ordinary skill in the art.**

Regarding Claim 6, Connery et al., the apparatus, wherein the interface device is a network interface card. **(Column 3 Lines 23 - 30) wherein it is known to a person of ordinary skill in the art that a network adapter is a network interface card.**

Regarding Claim 7, Connery et al., the apparatus, wherein the management signal is a power management event signal. **(Column 3 Lines 57 - 67) and Fig. 5, which depicts the power**

transition when a wake up on LAN triggers the transition, which to a person of ordinary skill in the art it is known to mean that the management signal is a power management event signal.

Regarding Claim 8, Connery et al., A method for wakeup on LAN, comprising:

sending a wakeup on LAN package to an interface device; **(Column 3 Lines 36 - 39)** and after receiving the wakeup on LAN package, the interface device separately sending a management signal to a programmable control apparatus and a computer system; **(Column 3 Lines 49 - 56)** wherein when the computer system is in a running mode, the computer system ignores the management signal; **(Column 3 Lines 56 - 67) and Fig. 5 describe the power states of the system.**

when the computer system is in a sleep mode, the computer system is woken up by the management signal; **(Column 3 Lines 56 - 67) and Fig. 5 describe the power states of the system, specifically state G1 and its possible next state .**

and when the computer system is in an abnormal off state, the programmable control apparatus resets the computer system after receiving the management signal. **(Column 3 Lines 56 - 67) and Fig. 5 describe the power states of the system, specifically state G3 which is a lost AC power state and its next state.**

Regarding Claim 9, Connery et al., the method, wherein the method further comprises: determining whether the computer system is in a normal state or in the abnormal state by a handshaking protocol between the programmable control apparatus and the computer system, wherein the normal state comprises the running mode and the sleep mode. **(Column 3 Lines 25 - 39) wherein it is known to a person of ordinary skill in the art that Magic Packet uses handshaking protocol for communication purposes, (Column 3 Lines 49 - 54) as explained**

the states of the system will be monitor by the network manager (Column 3 Lines 57 - 67).

Regarding Claim 10, Connery et al., the method, wherein the step of the determining comprises:

sending a first signal by the programmable control apparatus and sending a second signal by the computer system for interlacedly writing into a register, wherein a logic level of the first signal is opposite to a logic level of the second signal; wherein when a logic level of a data stored in the register remains identical to the logic level of the first signal, the computer system is in the abnormal off state. **(Column 4 Lines 1 - 6) teaches that the packet logic receives the logic signals from the control system and they are stored in the register. It is inherent and well known to a person of ordinary skill in the art that in order for different signal to write in the same register the signals must be interlaced as to prevent multiple signals trying to write to the same register simultaneously.**

Regarding Claim 11, Connery et al., the method, wherein the method further comprises monitoring a system health state of the computer system and generating a system health data. **(Column 4 Lines 1 - 6), Fig. 6 and Fig 8 teach the monitor logic that detects and keeps track of the states and transfer event of the system.**

Regarding Claim 12, Connery et al., the method, wherein the method further comprises determining whether to send the wakeup on LAN package according to the system health data. **(Column 3 Line 57 to Column 4 Line 6), Fig. 5, Fig. 6 and Fig 8 teach the monitor logic that detects and keeps track of the states and transfer event of the system and according to the current state will send the wake up on LAN signal when necessary.**

Regarding Claim 13, Connery et al., the method, wherein the computer system comprises a south bridge chip for receiving the management signal. **(Column 3 Lines 49 - 54) and Fig. 3**

represents the signal being receive by the PCI-ISA bridge, is actually the Southbridge as it is well known to a person of ordinary skill in the art.

Regarding Claim 14, Connery et al., a programmable control apparatus, **(Line 66 Column 2 to Line 7 Column 3)**, connected to a computer system, the programmable control apparatus comprising:

a receiving module, receiving a management signal from an interface device; **(Column 3 Lines 25 - 31) teaches the client system responds to a wake up signal, which is a management signal,** a handshaking module, communicating to the computer system with a handshaking protocol for determining if the computer system is in an abnormal off state; **(Column 3 Lines 35 - 44) wherein it is known to a person of ordinary skill in the art that Magic Packet uses handshaking protocol for communication purposes, (Column 3 Lines 49 - 54) as explained the states of the system will be monitor by the network manager (Column 3 Lines 57 - 67),** and a reset module, sending a reset signal to the computer system, wherein when the programmable control apparatus determines the computer system is in the abnormal off state, and receives the management signal, the reset signal resets the computer system. **(Column 3 Line 57 to Column 4 Line 6), Fig. 5, Fig. 6 and Fig 8 teach the monitor logic that detects and keeps track of the states and transfer event of the system and according to the current state will send the wake up on LAN signal when necessary.**

Regarding Claim 15, Connery et al., the programmable control apparatus, wherein the programmable control apparatus sends a first signal and the computer system sends a second signal for interlacedly writing into a register, and a logic level of the first, signal is opposite to a logic level of the second signal, wherein when a logic level of a data stored in the register remains identical to the logic level of the first signal, the computer system is in the abnormal off state. **(Column 4 Lines 1 - 6) teaches that the packet logic receives the logic signals from the control system and they are stored in the register. It is inherent and well known to a person of ordinary skill in the art that in order for different signal to write in the same register the signals must be interlaced as to prevent multiple signals trying to write to the same register simultaneously.**

Regarding Claim 16, Connery et al., the programmable control apparatus of claim 14, wherein the programmable control apparatus comprises:

a monitor module, monitoring a system health state of the computer system and generating a system health data; **(Column 4 Lines 1 - 6), Fig. 6 and Fig 8 teach the monitor logic that detects and keeps track of the states and transfer event of the system,** and a data output port, sending the system health data. **(Line 66 Column 2 Line 7 Column 3) wherein it is inherent that a managing system must comprise input/output ports in order to communicate with other devices with in the system.**

Regarding Claim 17, Connery et al., the programmable control apparatus of claim 14, wherein the interface device is a network interface card. **(Column 3 Lines 23 - 30) wherein it is known to a person of ordinary skill in the art that a network adapter is a network interface card.**

Regarding Claim 18, Connery et al., the programmable control apparatus, wherein the management signal is a power management event signal. **(Column 3 Lines 57 - 67) and Fig. 5, which depicts the power transition when a wake up on LAN triggers the transition, which to a person of ordinary skill in the art it is known to mean that the management signal is a power management event signal.**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeison Arcos whose telephone number is (571) 270-3235. The examiner can normally be reached on M-F 7:30AM - 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on (571) 272-5026. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JA

07/20/2007

Marvin Lateef

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